

## Anti-EPAS1 Antibody (4H347)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	4H347
Purification:	Affinity-chromatography

## Applications

Verified Activity:	Immunofluorescence staining of Hela Cells with TMAH-00395 at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).
Application:	ELISA,IF
Recommended	IF:1:20-1:200.

## Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	A synthetic peptide: Human HIF-2 alpha
Antigen Species:	Human
Gene ID:	2034
Uniprot ID:	Q99814
Synonyms:	bHLHe73;Endothelial PAS domain-containing protein 1;Member of PAS protein 2;PASD2;HLF;HIF2-alpha;Basic-helix-loop-helix-PAS protein MOP2;PAS domain-containing protein 2;Class E basic helix-loop-helix protein 73;HIF2A;HIF-2-alpha;Hypoxia-inducible factor 2-alpha;EPAS-1;MOP2;HIF-1-alpha-like factor
Biology Area:	Epigenetics and Nuclear Signaling, Cancer, Cardiovascular, Metabolism

## Research Background

Transcription factor involved in the induction of oxygen regulated genes. Heterodimerizes with ARNT; heterodimer binds to core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) of target gene promoters. Regulates the vascular endothelial growth factor (VEGF) expression and seems to be implicated in the development of blood vessels and the tubular system of lung. May also play a role in the formation of the endothelium that gives rise to the blood brain barrier. Potent activator of the Tie-2 tyrosine kinase expression. Activation requires recruitment of transcriptional coactivators such as CREBBP and probably EP300. Interaction with redox regulatory protein APEX1 seems to activate CTAD.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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